ENVIRONMENTAL CHEMISTS

Date of Report: October 16, 1996 Date Received: October 10, 1996

Project: Metro Self Monitor, PO #M54851 Date Samples Extracted: October 11, 1996 Date Extracts Analyzed: October 15, 1996

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, AND ZINC USING METHOD 6010

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	Zinc
M54851	0.32	0.24	0.31	0.07
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 73303 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.32	0.32	0	0-20
Copper	mg/L (ppm)	0.24	0.24	0	0-20
Nickel	mg/L (ppm)	0.31	0.30	3	0-20
Zinc	mg/L (ppm)	0.07	0.07	0	0-20

Laboratory Code: 73303 (Matrix Spike)

S. Allend	Reporting	Spike	Sample	%]	Recovery	Acceptance	Relative e Percent
Analyte:	<u>Units</u>	Level	Result	MS	MSD	Criteria	<u>Difference</u>
Chromium	mg/L (ppm)	5	0.32	91	91	80-120	0
Copper	mg/L (ppm)	5	0.24	89	91	80-120	2
Nickel	mg/L (ppm)	10	0.31	88	89	80-120	1
Zinc	mg/L (ppm)	5	0.07	92	92	80-120	0

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD	Acceptano Criteria	
Chromium Copper	mg/L (ppm) mg/L (ppm)	5 5	96 97 95 96	80-120 80-120	1
Nickel	mg/L (ppm)	10	94 96	80-120	2
Zinc	mg/L (ppm)	5	95 95	80-120	0

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

KNJ 10/10/9 2:35 P

SAMPLE CHAIN OF CUSTODY

Send Report To: Alaskan Company Alaskan Com	Works		Contact GERGED	17-0
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	WA	98134		The state of the s
City, State, Zip Seattle Phone # (206) 382-85	<u> </u>	# (206) 382-4.	309 Date_	10-10-96
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Beth M. Albertson, M.S. Bradley T. Benson Kelley D. Wilt 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044

October 16, 1996

INVOICE # 96ACU1016-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M54851: Results of testing requested by Gerry Thompson, Project Manager for material submitted on October 10, 1996.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$65 per sample \$ 65.00

Amount Due \$ 50.00

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Beth M. Albertson, M.S. Bradley T. Benson Kelley D. Wilt 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044

October 16, 1996

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on October 10, 1996 from your Metro Self Monitor, PO #M54851 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

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Enclosures ACU1016R.DOC